

Operational Modeling



Course Instructor



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Creative. Methodical. Meticulous.

Duncan is fascinated with pedagogy and loves course creation and design. He is an effective communicator with extensive experience teaching financial modeling, accounting, analysis & valuation. Prior to teaching, Duncan held senior equity research positions with top banks & brokerages. He has solid analytical skills with an Engineering degree, Master of Finance degree and a CFA Charter.



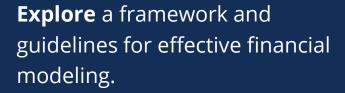
Course Introduction

Operational Modeling



Learning Objectives







Analyze a company's operations and divide a financial model into schedules.



Approach each schedule with a consistent layout and structure.



Calculate key outputs within the model schedules.



Finalize and review the financial model, ensuring integrity.



Create and maintain a library of schedules or building blocks.



Course Outline



Financial Modeling
Overview



Revenue Schedule



Cost Schedule



Income Statement



Working Capital Schedule



Depreciation Schedule



Asset Schedule



Income Tax
Schedule



Model Review



Library of Schedules



Financial Modeling Overview



Welcome to our course on **Operational Modeling**.

We will focus on common operational components of financial models.

This essentially means all parts of a model but not the **capital structure**.

Focusing on the **operations** helps us see what is actually driving the business.



Financial Modeling Schedules

Revenue Schedule

Cost Schedule

Income Statement

Working Capital Schedule

Depreciation Schedule

Asset Schedule

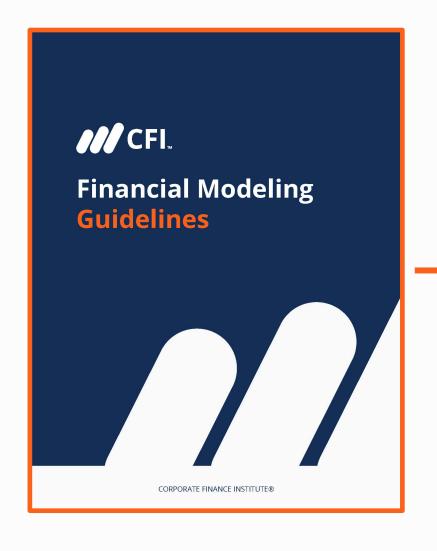
Income Tax Schedule

Library of Schedules

Building Blocks



Financial Modeling Guidelines



- ✓ Revenue Schedule
- ✓ Cost Schedule
- ✓ Income Statement
- ✓ Working Capital Schedule
- ✓ Depreciation Schedule
- ✓ Asset Schedule
- ✓ Income Tax Schedule



Financial Modeling Schedules



1. Enter

We always need to bring some figures into a **schedule**.

These often enter the schedule from the **top** or from the **left** side.



2. Calculate

This is where the real work is performed **inside the schedule**.

We use **formulas** to calculate the figures needed below to exit.





3. Exit

Calculated figures are **summarized** near the bottom of the schedule.

These will likely **flow** to other schedules within the financial model.



Financial Modeling Schedules



2. Calculate





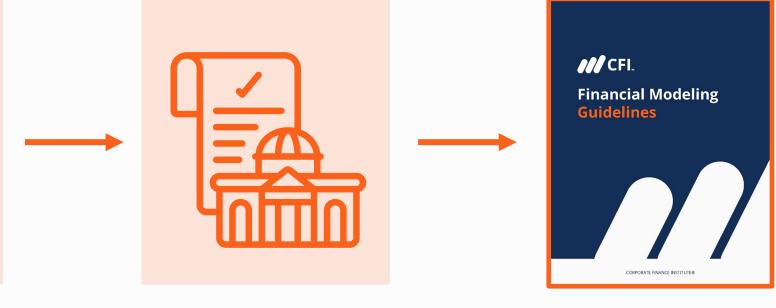
Working Capital School	edule								
All figures in USD thousands unless stated		2019A	2020A	2021A	2022F	2023F	2024F	2025F	2026
Days in Period		365	365	365	365	365	365	365	365
Revenue		51,585	53,494	55,749	58,570	59,748	60,949	61,866	62,486
COGS		27,697	28,429	29,200	30,356	31,337	32,350	33,197	34,066
AMOUNTS PER DAY									
Accounts Receivable	(Days)	40	43	43	45	45	45	45	45
Inventory	(Days)	24	25	25	25	25	25	25	25
Accounts Payable	(Days)	40	41	41	40	40	40	40	40
TOTAL AMOUNTS									
Accounts Receivable		5,708	6,333	6,624	7,221	7,366	7,514	7,627	7,704
Inventory		1,792	1,923	2,009	2,079	2,146	2,216	2,274	2,333
Accounts Payable		3,024	3,205	3,319	3,327	3,434	3,545	3,638	3,733
NET WORKING CAPITAL									
Current Assets		7,500	8,256	8,633	9,300	9,513	9,730	9,901	10,037
Current Liabilities		3,024	3,205	3,319	3,327	3,434	3,545	3,638	3,733
Net Working Capital		4,476	5,051	5,314	5,974	6,078	6,185	6,263	6,304
. Tee . Torking capital		1, 170	5,05 /	3,3	5,5, 1	0,070	0,103	0,203	0,304
Cash from Working Capital I	ems	_	(575)	(263)	(660)	(105)	(106)	(78)	(41)



Financial Modeling Review

We will demonstrate a **model review process** to check all our calculations.

- ✓ Revenue Schedule
- ✓ Cost Schedule
- ✓ Income Statement
- ✓ Working Capital Schedule
- ✓ Depreciation Schedule
- ✓ Asset Schedule
- ✓ Income Tax Schedule





Financial Modeling Library



Revenue Schedule



Cost Schedule



Income Statement



Working Capital Schedule



Depreciation Schedule



Asset Schedule



Income Tax
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Library of Schedules



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Cost Schedu<u>le</u>



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Revenue Schedule

Effective financial modeling often begins with a thoughtful forecast of revenue.



Schedule

The revenue schedule will house the relevant inputs and necessary calculations.



Components

It is important to break revenue out into price and volume for material business lines.

Price x Volume = Revenue



Learn and Analyze

This is a great
opportunity to learn
more about the
underlying business and
drivers for future growth.



Growth Rates

Smaller business lines
may be forecasted
utilizing a revenue growth
rate. This is appropriate
when they have a small
impact on the model.



Revenue Schedule



1. Enter

We require the **Days in Period** and the **Plant Capacity**.

We also need **Volume Growth** and **Pricing Increases**.



2. Calculate

We will **multiply price and volume** to calculate revenue.

It is important to break out price and volume for main business lines.





3. Exit

We need accurate revenue estimates for the business.

These will flow to the **income statement** later.



Revenue Schedule - Model Alerts

Model alerts are an effective way to flag potential issues with financial models.

We will build an alert which flags if sales volume exceeds plant capacity in any of the periods.

This prompts us that additional capital expenditure may be required to increase capacity.

Revenue Schedule: I	Model Alerts								
All figures in USD thousands unless stated		2019A	2020A	2021A	2022F	2023F	2024F	2025F	2026F
OPERATIONS									
Sales Volume Growth			2.0%	2.1%	2.0%	1.0%	1.0%	0.5%	0.5%
Sales Volume	(Units/Day)	1,374	1,401	1,430	1,459	1,473	1,488	1,495	1,503
Plant Capacity	(Units/Day)	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Operational Efficiency		91.6%	93.4%	95.3%	97.2%	98.2%	99.2%	99.7%	100.2%
Capacity Exceeded?		-	-	-	-	-	-	_	Yes



Revenue Schedule – Smaller Business Lines

We can forecast a smaller business using a **revenue growth rate**.

This is a simplified approach that might be suitable for business divisions which are immaterial. It does not offer insight into the financial impact of price and volume though.

Revenue Schedule									
All figures in USD thousands unless stated		2019A	2020A	2021A	2022F	2023F	2024F	2025F	2026F
REVENUE: Core Business									
Sales Volume	(Units)	501,510	511,365	521,950	532,389	537,713	543,090	545,805	548,534
Sales Price	(USD/Unit)	102.86	104.61	106.81	110.01	111.11	112.23	113.35	113.91
Revenue		51,585	53,494	55,749	58,570	59,748	60,949	61,866	62,486
REVENUE: Other									
Revenue		2,115	2,532	3,152	3,782	4,539	5,447	6,536	7,843
YOY Growth (%)		-	19.7%	24.5%	20.0%	20.0%	20.0%	20.0%	20.0%



Course Outline



Financial Modeling
Overview



Revenue Schedule



Cost Schedule



Income Statement



Working Capital Schedule



Depreciation Schedule



Asset Schedule



Income Tax
Schedule



Model Review



Library of Schedules



Fixed & Variable Costs

Most businesses have fixed and variable components in their cost structure.

It is very important to break out the **fixed** and **variable** components separately when modeling.





The mix of fixed and variable costs in a business determines its **operational leverage**.

A business with a **higher proportion of fixed costs** has more operational leverage.

Leverage makes good things better and bad things worse.

5X

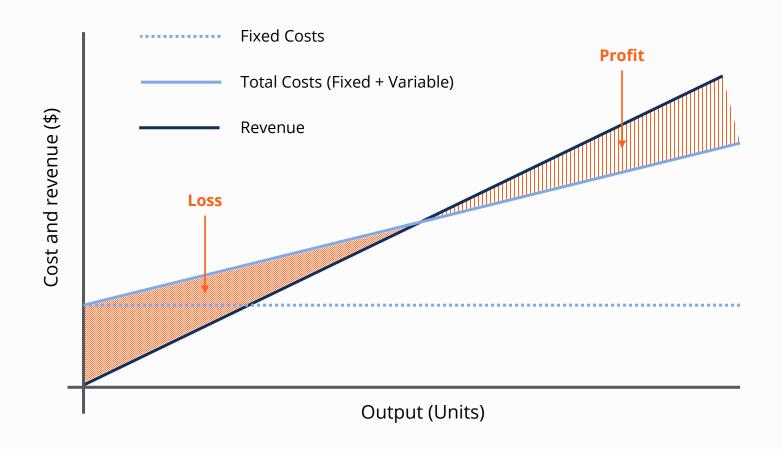
Higher leverage means more **amplification** of what is happening in the business.

500%

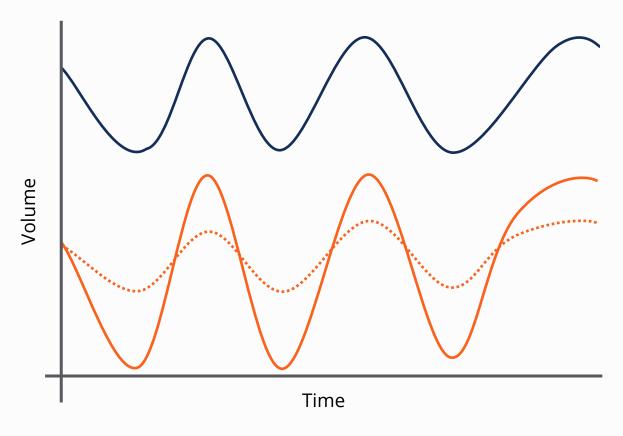
Higher leverage thus means more **risk** but also the potential for more **return**.



Profit is amplified as output grows since a portion of costs are fixed.



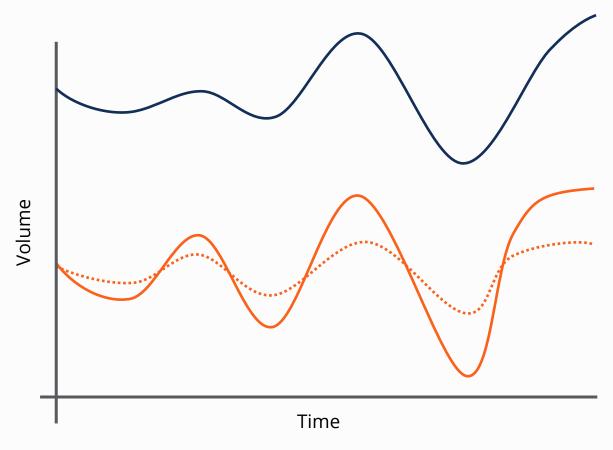




Revenue

Profits for business with **higher** operational leverage Profits for a business with **lower** operational leverage





Revenue

Profits for business with **higher** operational leverage

Profits for a business with **lower** operational leverage



Cost Schedule



1. Enter

We will need an estimate of sales volume and cost inflation.

Sales volume will often be linked down from a revenue schedule.



2. Calculate

Forecast **variable** costs on per unit basis then convert to total amounts.

Forecast **fixed** costs in total amounts then convert to per unit basis.





3. Exit

We need the cost of goods sold (COGS).

This will flow to our **income statement** later.



Cost Schedule

There are **two steps** to forecast costs:

01. Variable Costs

Start with per unit amounts.
Then calculate total amounts.

Cost / Unit x Units = Total Variable Costs

02. Fixed Costs

Start with total amounts.
Then calculate per unit amounts.

Total Fixed Cost / Sales Volume = Per Unit Fixed Cost



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Income Statement

An income statement is a summary which should be **linked** to supporting schedules.

Calculations should be done on the schedules then pulled into the income statement.

Provides a meaningful measure of the company's **profitability** for each period.

Income Statement								
All figures in USD thousands unless stated	2019A	2020A	2021A	2022F	2023F	2024F	2025F	2026F
Inflation	2.4%	2.2%	2.3%	3.5%	3.0%	3.0%	2.5%	2.5%
	2.470	2.270	2.570	3.570	3.070	3.070	2.570	2.570
Revenue	51,585	53,494	55,749	58,570	59,748	60,949	61,866	62,486
COGS	27,697	28,429	29,200	30,356	31,337	32,350	33,197	34,066
Gross Profit	23,888	25,065	26,550	28,215	28,411	28,599	28,669	28,420
SG&A	5,877	6,006	6,144	6,359	6,550	6,746	6,915	7,088
Other	1,764	1,931	2,026	2,097	2,160	2,225	2,280	2,337
EBITDA	16,247	17,128	18,380	19,759	19,701	19,628	19,474	18,995
Depreciation	2,960	3,196	3,452	4,177	4,408	4,647	4,893	5,147
EBIT	13,287	13,932	14,928	15,582	15,293	14,980	14,581	13,849
Interest	1,488	2,580	2,448	2,520	2,520	2,520	2,520	2,520
ЕВТ	11,799	11,352	12,480	13,062	12,773	12,460	12,061	11,329
Current Tax	_	_	_	_	_	2,348	2,821	2,724
Deferred Tax	3,155	2,861	3,012	3,265	3,193	767	194	108
Total Tax	3,155	2,861	3,012	3,265	3,193	3,115	3,015	2,832
Net Income	8,644	8,491	9,468	9,796	9,580	9,345	9,045	8,497



Accrual and Matching Principles

Both revenue and COGS need to be driven by sales volume.

	Income Statement			
	All figures in USD thousands unless stated	2019A	2020A	2021A
	Inflation	2.4%	2.2%	2.3%
	*			•
Accrued to correct period	Revenue	51,585	53,494	55,749
Matched to accrued revenue	COGS	27,697	28,429	29,200
	Gross Profit	23,888	25,065	26,550



Income Statement





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Working Capital Schedule

One company's A/P is another's A/R. This creates a natural tension between companies.

Working capital needs to be carefully considered, given its **impact on cash flow**.

Movements in working capital items can either **consume** or **produce** cash.

Working Capital Sch	eauie								
All figures in USD thousands unless stated		2019A	2020A	2021A	2022F	2023F	2024F	2025F	2026F
Days in Period		365	365	365	365	365	365	365	365
Revenue		51,585	53,494	55,749	58,570	59,748	60,949	61,866	62,486
COGS		27,697	28,429	29,200	30,356	31,337	32,350	33,197	34,066
AMOUNTS PER DAY		10	40	40	45	45	45	45	45
Accounts Receivable	(Days)	40	43	43	45	45	45	45	45
Inventory	(Days)	24	25	25	25	25	25	25	25
Accounts Payable	(Days)	40	41	41	40	40	40	40	40
TOTAL AMOUNTS									
Accounts Receivable		5,708	6,333	6,624	7,221	7,366	7,514	7,627	7,704
Inventory		1,792	1,923	2,009	2,079	2,146	2,216	2,274	2,333
Accounts Payable		3,024	3,205	3,319	3,327	3,434	3,545	3,638	3,733
NET WORKING CAPITAL									
Current Assets		7,500	8,256	8,633	9,300	9,513	9,730	9,901	10,037
Current Liabilities		3,024	3,205	3,319	3,327	3,434	3,545	3,638	3,733
Net Working Capital		4,476	5,051	5,314	5,974	6,078	6,185	6,263	6,304
Cash from Working Capital I	tems	_	(575)	(263)	(660)	(105)	(106)	(78)	(41)



Working Capital Schedule



1. Enter

Key inputs include **Days in Period**, **Revenue** and **COGS**.



2. Calculate

We need to calculate **historical** metrics in **number of days**.

Convert forecasts from **number of days** to **total dollar amounts**.





3. Exit

Future account balances required for the balance sheet.

Cash from working capital items required for cash flow analysis.

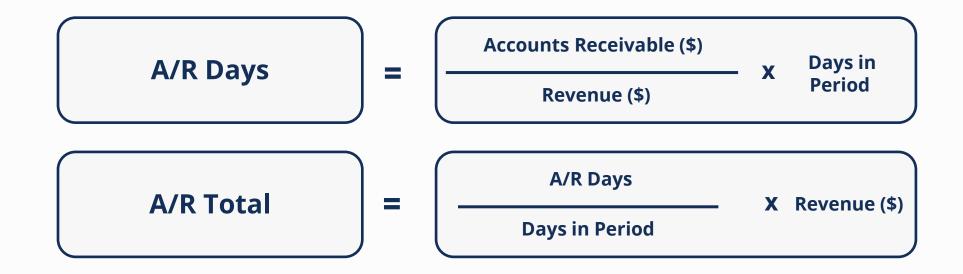


Accounts Receivable Calculations

Number of days on average it takes the business to collect on its receivables.

Sales are the key driver of a company's accounts receivable balance.

Companies are always looking for ways to **speed up collection**.





Inventory Calculations

Number of days on average for which inventory is held prior to sale.

Cost of sales are the key driver of the inventory balance.

Companies like to move their inventory and reduce their average inventory days.



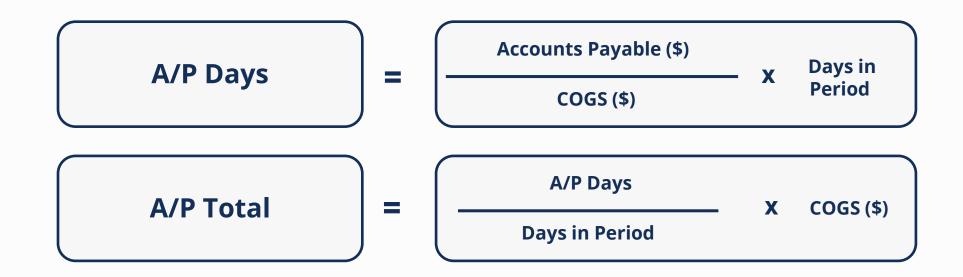


Accounts Payable Calculations

Number of days on average it takes the business to pay its suppliers.

Purchases on credit are the key driver of the account's payable balance.

Companies like to stretch their payables and pay suppliers slowly.





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Asset Schedu<u>le</u>



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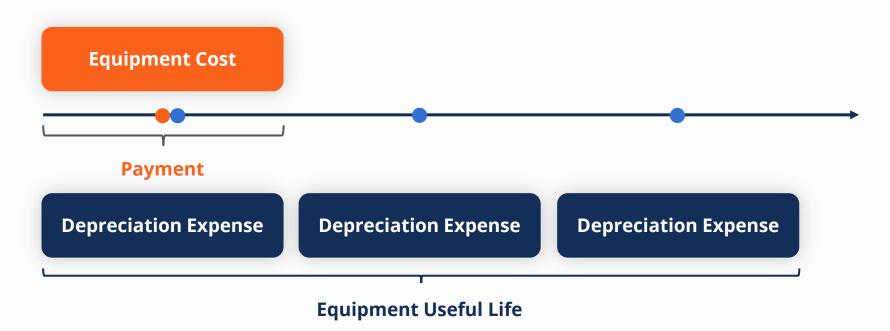
Depreciation Expense

The cost of a fixed asset is allocated over its useful life as it generates economic benefits over that time.

The depreciation expense should be recorded in the **same period** as the economic benefit it generated.

This allocation should be done irrespective of when the cash was sent to the equipment supplier.

Depreciation expense is an example of the **matching principle**.





Depreciation Modeling

Depreciation needs to be considered in the two parts illustrated below



Existing Assets

- Assets the company already owns.
- We assume 100% depreciation in the first year since the assets are already owned.



New Assets

- Assets the company is expected to buy in the future.
- We need to consider the timing of these asset purchases.

Note: Land has an infinite useful life and is not depreciated.



Depreciation Modeling - New Assets

Need to consider when the company will purchase the assets within each period.

Timing of asset purchases will depend on the company's **capital budgeting preferences**.

The timing of these purchases will impact our depreciation calculations.



If the assets are purchased at the **start** of the year, then we can allocate a **full year** of depreciation expense in the first year.



If the assets are purchased in the **middle** of the year, then we only allocate a **half-year** of depreciation for the company in the first year.



Depreciation Schedule



1. Enter

Opening PP&E balance, capex forecast and first year allocation.

The **useful lives** for both existing and new assets will also be needed.



2. Calculate

Perform the depreciation calculations within the schedule.

Calculate depreciation for both **existing** and **new** assets.





3. Exit

We need the company's **total depreciation expense**.

This will flow to the company's income statement.



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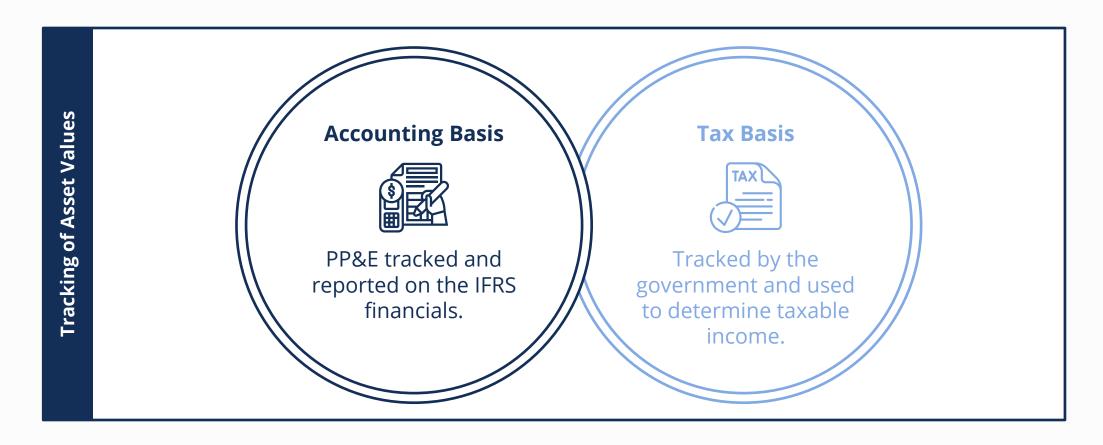




Accounting versus Tax Basis

Asset values must be tracked for both accounting purposes and for tax purposes.

These are similar in concept but there are **some differences** to consider.





Asset Schedule (Accounting Basis)



1. Enter

Opening PP&E balance, capex additions, accounting depreciation.

Some of these figures can be found on a depreciation schedule.



2. Calculate

We need to calculate the future balances for the PP&E.

These will be calculated inside a **corkscrew** formation.





3. Exit

The ending **PP&E** amounts for each period are needed.

These may flow to a balance sheet later.



Asset Schedule (Tax Basis)



1. Enter

Opening Tax Basis, capex additions, tax depreciation rate.

We also need the first-year tax depreciation assumption.



2. Calculate

We need to calculate the future balances for the Tax Basis.

These will be calculated inside a **corkscrew** formation.



3. Exit

The ending **Tax Basis** amounts for each period are needed.

These will allow us to calculate our future tax depreciation.





Asset Schedule - Corkscrews

Use a **corkscrew** to track an account which is changing over time.

Asset Schedule							
All figures in USD thousands unless stated	2020A	2021A	2022F	2023F	2024F	2025F	2026F
Capital Expenditure	5,199	4,400	4,550	4,700	4,850	5,000	5,125
Blended Tax Depreciation Rate			15.0%	15.0%	15.0%	15.0%	15.0%

First Year Tax Depreciation	50%
Thise real rax bepreciation	3070

Property Plant & Equipment

Beginning

Capital Expenditure

Accounting Depreciation

Ending

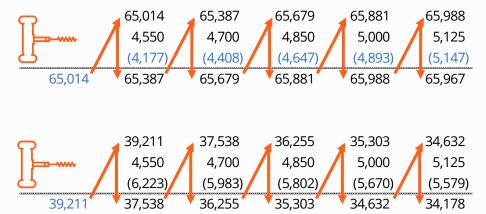
Tax Basis

Beginning

Capital Expenditure

Tax Depreciation

Ending





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Income Statement

Many companies only show one line for **total tax** on their income statement. It is important to break total tax into **current tax** and **deferred tax**.

Income Statement								
All figures in USD thousands unless stated	2019A	2020A	2021A	2022F	2023F	2024F	2025F	2026F
Inflation	2.4%	2.2%	2.3%	3.5%	3.0%	3.0%	2.5%	2.5%
Revenue	51,585	53,494	55,749	58,570	59,748	60,949	61,866	62,486
COGS	27,697	28,429	29,200	30,356	31,337	32,350	33,197	34,066
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EBIT	13,287	13,932	14,928	15,582	15,293	14,980	14,581	13,849
Interest	1,488	2,580	2,448	2,520	2,520	2,520	2,520	2,520
ЕВТ	11,799	11,352	12,480	13,062	12,773	12,460	12,061	11,329
Current Tax	_	_	-	-	-	2,348	2,821	2,724
Deferred Tax	3,155	2,861	3,012	3,265	3,193	767	194	108
Total Tax	3,155	2,861	3,012	3,265	3,193	3,115	3,015	2,832
Net Income	8,644	8,491	9,468	9,796	9,580	9,345	9,045	8,497



Accounting Treatment of Income Taxes

Income tax expense includes both **current** and **deferred** components under both IFRS and US GAAP. We need to break out the **current taxes** since they are **cash outflows**.







Current Tax Expense

The amount of tax due to the tax authorities in the **current** period.

(Cash taxes)



Deferred Tax Expense

The amount of tax due to the tax authorities in **future** periods

(Non-cash taxes)



Total Tax Expense

The total amount shown on the income statement for the period

(Total taxes)



Accounting Income Versus Taxable Income

We need to understand the differences between **accounting income** and **taxable income**. It is these differences that lead to deferred taxes for companies.



Accounting Income

- The profit or loss for a period before deducting tax expense.
- It is Earnings Before Tax (EBT) on the income statement for the period.



Taxable Income

- The profit or loss for a period determined in accordance with rules established by taxation authorities.
- This will appear on tax returns.



Special Concessions Offered

Governments in many jurisdictions offer special concessions to companies.

These concessions help companies by deferring taxes to a later date.

There can be large numbers of special concessions offered.

Many concessions are not material and may not warrant inclusion in our models.

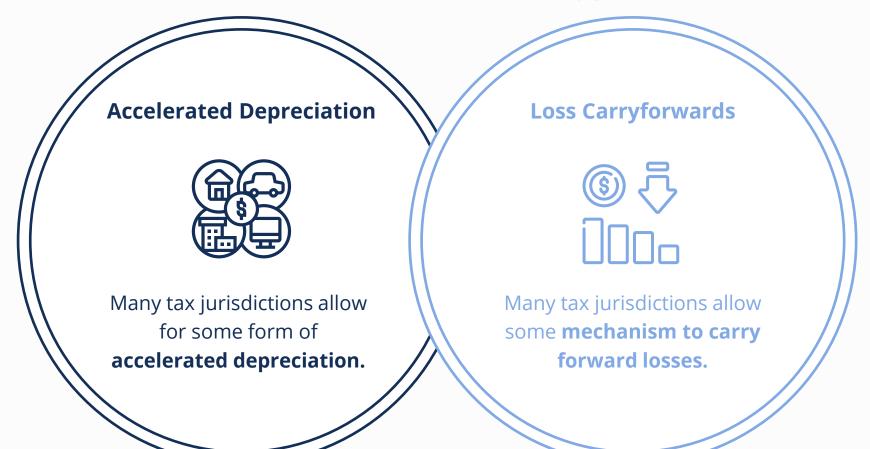




Accounting Income versus Taxable Income

There are many differences between accounting and taxable income.

We will focus on **two** considerable differences that occur in **many jurisdictions**.





1) Accelerated Depreciation

Accounting rules determine the depreciation method based on the usage and the useful life.

Governments in many jurisdictions allow some form of **accelerated depreciation** for tax purposes.

This concession often leads higher depreciation expenses early in the asset life and **lowers taxable income**.





2) Loss Carryforward

Accounting rules typically **do not allow** companies to carry a loss forward into the future as a credit.

Governments in many jurisdictions **allow** companies a mechanism to carry losses forward.

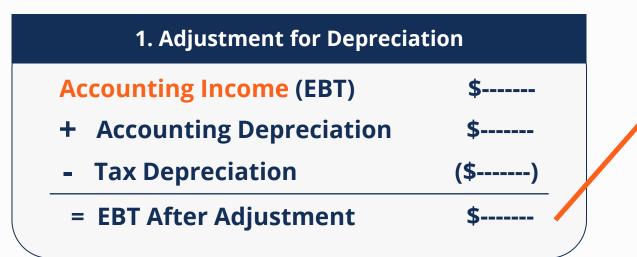
These losses can accumulate over time and **act like credits** to lower taxable income for the company in the future.





Tax Schedule - Calculation Overview

Our calculation of Taxable Income will be handled in **two components**.







Accounting Treatment of Income Taxes

We can now determine all our tax expense figures required for financial analysis



Deferred Tax Expense

Can calculate from other tax amounts

Total Tax Expense –

Current Tax Expense



Total Tax Expense

Will appear on the income statement.

Tax Rate x

Accounting Income



Current Tax Expense

Due to the government in the current period.

Tax Rate x

Taxable Income



Tax Schedule



1. Enter

Key inputs include Earnings Before Taxes (EBT), accounting depreciation, tax depreciation and tax loss pool.



2. Calculate

We will begin with **Accounting Income** (EBT) and modify it to be **Taxable Income**.





3. Exit

Tax expenses are needed for the **income statement** and **cash flow statement**.

Current taxes are needed to calculate **free cash flow** for a **DCF valuation**.



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Model Review



Preparing a **clean** and **presentable** financial model is critical.

Model builders should always **review their work carefully**.

Peers should also review their work for consistency and integrity.

This is especially important with more **complex** models.

There are **powerful tools** that can assist with model reviews.



Model Review - Locating Inputs

Excel offers some tools to find **manual inputs** in a model.

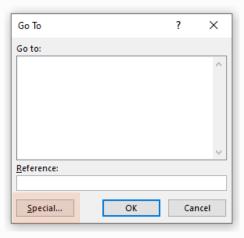
Use **F5** to activate the **Go To** dialogue box and then select **Special**.

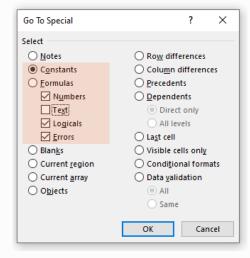
Select **Constants** and **uncheck Text** so labels are not highlighted.

This will highlight all inputs unless they are preceded by an equal sign.

While these inputs are highlighted the Fill Color can be changed.

Change the Fill Color using **ALT HH** and select from the palette.







Model Review - Check One Column in Detail

It is best to check a model **one section** at a time starting with the **left most column**.

Using F2 to enter each cell and perform a manual check before confirming row differences from left to right.

Revenue Schedule									
All figures in USD thousands unless stated Days in Period		2019A	2020A	2021A	2022F	2023F	2024F	2025F	2026
		365	365	365	365	365	365	365	365
OPERATIONS									
Sales Volume Growth			2.0%	2.1%	2.0%	1.0%	1.0%	0.5%	0.5%
Sales Volume	(Units/Day)	1,374	1,401	1,430	1,459	1,473	1,488	1,495	1,503
Plant Capacity	(Units/Day)	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Operational Efficiency		91.6%	93.4%	95.3%	97.2%	98.2%	99.2%	99.7%	100.2%
VOLUME									
Days in Period		365	365	365	365	365	365	365	365
Sales Volume	(Units/Day)	1,374	1,401	1,430	1,459	1,473	1,488	1,495	1,503
Sales Volume	(Units)	501,510	511,365	521,950	532,389	537,713	543,090	545,805	548,534
PRICING									
Pricing Increases			1.7%	2.1%	3.0%	1.0%	1.0%	1.0%	0.5%
Unit Price	(USD/Unit)	102.86	104.61	106.81	110.01	111.11	112.23	113.35	113.91
Capacity Exceeded?		-	-	-	-	-	-	-	Yes



Model Review - Checking for Differences

Check **row differences** from the left hand column across to the right.

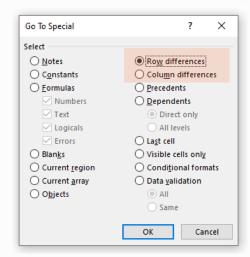
Hit **F5** for **Go To** then **Special** and select **Row differences**.

Apply this check across **entire sections** of the model at a time.

Keyboard Shortcuts

- Use CTRL \ to go straight into row differences.
- Use CTRL SHIFT \ to go straight into column differences.



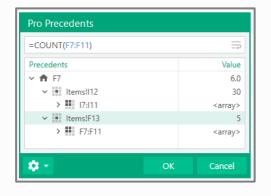




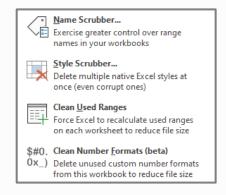
Model Review - Macabacus Tools



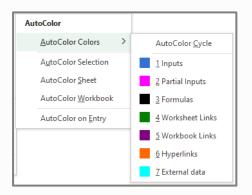
Pro Precedents



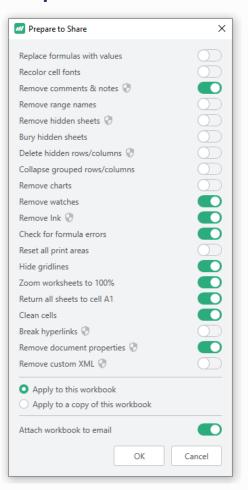
File Optimization



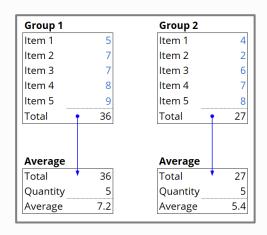
AutoColor



Prepare to Share



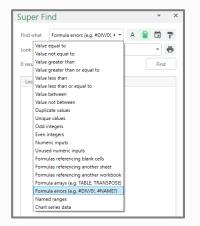
Show All Precedents



Visualization Tools



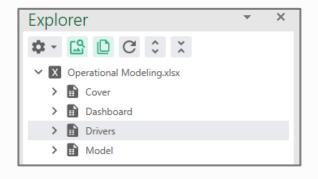
Super Find



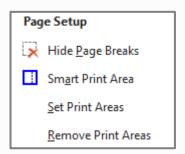
Model Review - Macabacus Tools



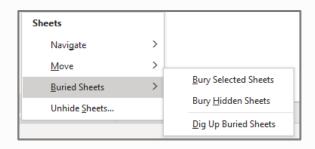
Explorer Pane



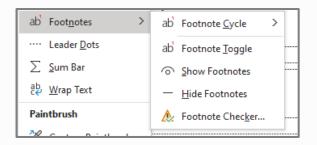
Page Setup



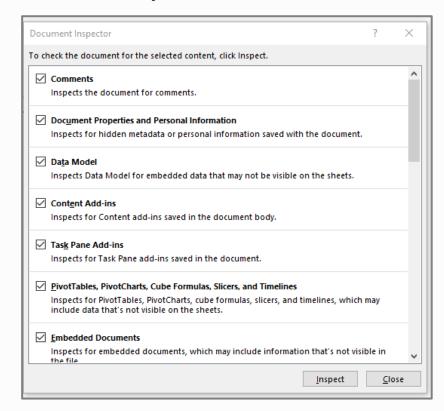
Buried Sheets



Footnotes



Document Inspector





Course Outline



Financial Modeling
Overview



Revenue Schedule



Cost Schedule



Income Statement



Working Capital Schedule



Depreciation Schedule



Asset Schedule



Income Tax
Schedule



Model Review





Library of Schedules



We've looked past the company's capital structure and focused through on its **operations**.



When we analyze the core operations, we can understand the **strengths** and **weaknesses** of the business.



It is critical to know how to build these schedules the right way.

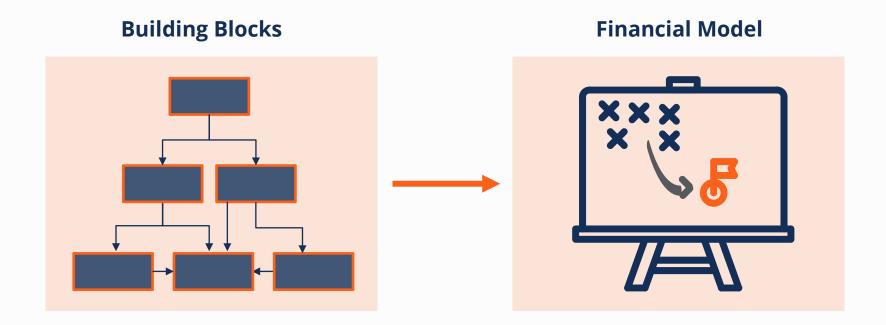


Now that they've been built and reviewed, we can store them away for **future use**.

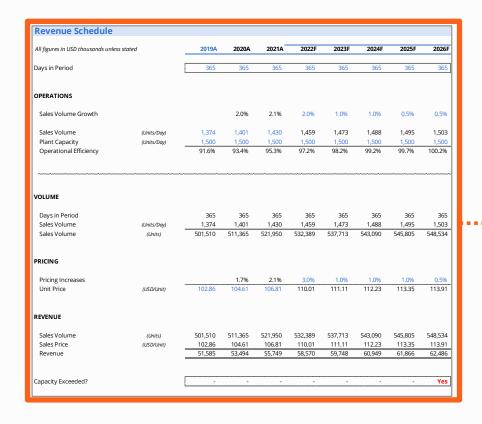


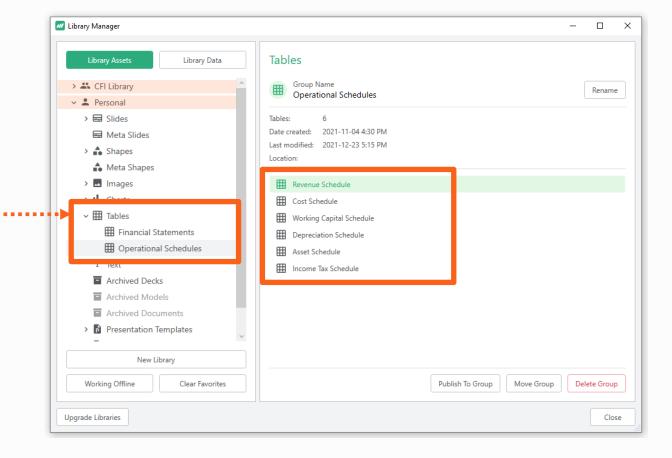
Those engaged in financial modeling typically have **portfolios** of schedules, which facilitate model construction.









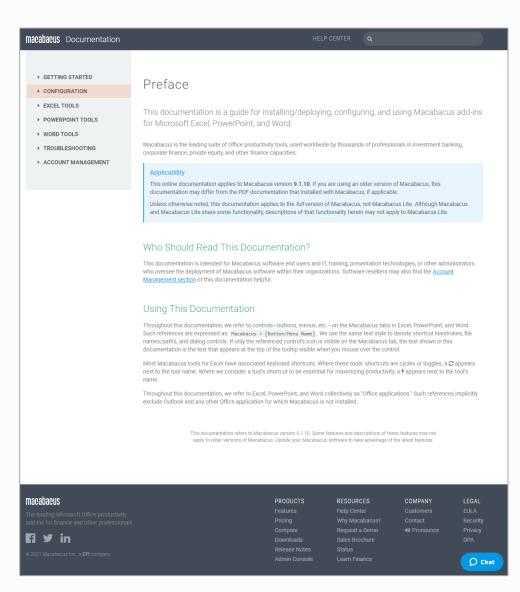




Macabacus Documentation

Configuration







Course Conclusion

Operational Modeling



We Covered...



Financial Modeling
Overview



Revenue Schedule



Cost Schedule



Income Statement



Working Capital Schedule



Depreciation Schedule



Asset Schedule



Income Tax
Schedule



Model Review



